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APPLICATION NO.	FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/652,376	(08/31/2000	Arun Kumar Sinha	U 012930	4436	
140	7590	08/25/2006		EXAMINER		
LADAS &		ET	KEYS, ROSALYND ANN			
26 WEST 6 NEW YORI				ART UNIT PAPER NUMBER 1621		
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				DATE MAILED: 08/25/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		09/652,376	SINHA, ARUN KUMAR	
	Office Action Summary	Examiner	Art Unit	
		Rosalynd Keys	1621	
Period fo	The MAILING DATE of this communication app or Reply		orrespondence address	-
A SHO WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE is in a sound of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. tely filed the mailing date of this communi O (35 U.S.C. § 133).	
Status				
2a)⊠	Responsive to communication(s) filed on <u>30 Ma</u> . This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		ts is
Dispositi	on of Claims			
5) ☐ 6) ☑ 7) ☐ 8) ☐ Applicati 9) ☐ 10) ☐	Claim(s) 1.2 and 4-7 is/are pending in the application of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1.2 and 4-7 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examine The drawing(s) filed on is/are: a) access applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine The oa	vn from consideration. r election requirement. r. epted or b) □ objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.1	
Priority u	inder 35 U.S.C. § 119			
12) <u> </u>	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau see the attached detailed Office action for a list of the certified copies of the attached detailed Office action for a list of the certified copies of the certified copies of the prior application from the International Bureau see the attached detailed Office action for a list of the certified copies of the certified copies of the prior application from the International Bureau see the attached detailed Office action for a list of the certified copies of the certified copies of the priority documents.	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No Id in this National Stage	•
2) D Notic 3) D Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:		

DETAILED ACTION

Status of Claims

1. Claims 1, 2 and 4-7 are pending.

Claims 1, 2 and 4-7 are rejected.

Claims 3 and 8-12 are cancelled.

Claim Rejections - 35 USC § 112

2. Claims 1, 2 and 4-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claims are indefinite because they refer to a formula I. However, the claims do not contain a structural formula.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1, 2 and 4-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Devgan et al. (Aust. J. Chem., 1968, 21, 3001-3003) alone or in view of Patra et al. (Journal of Natural Products, Vol. 44, No. 6, November-December 1981, pages 668 and 669) and further in view of March (Advanced Organic Chemistry: Reactions, Mechanisms, and Structure, third

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edition, 1985, pp. 691-700 and 1093-1096) and Ma (US 3,757,490), for the reasons given in the previous office action, mailed January 25, 2006.

Response to Arguments

5. Applicant's arguments filed May 30, 2006 have been fully considered but they are not persuasive. The Applicants argue that the Examiner makes the assumption that the use of alpha, beta or gamma asarone alone is equivalent to the use of crude calamus oil and that given the possibility of side reactions when calamus oil which contains alpha, beta or gamma asarone is used, it is not obvious from a disclosure showing use of one of these that a composition which contains all of these types of asarone can be used for preparation of highly pure 1-Propyl-2,4,5-trimethoxybenzene. This argument is not persuasive. The Examiner believes that regardless of whether side reactions occur or not if one hydrogenates alphaasarone alone, gamma-asarone alone, as taught by Devgan et al., or beta-asarone alone, as taught by Patra et al, or in combination as claimed, the result would be the same obtainment of the dihydro derivative. The Examiner believes that there is nothing in the calamus oil that would hinder each of the asarones present therein from undergoing hydrogenation in the manner taught by Devgan et al. When applying the process of the Devgan et al. to the instant calamus oil the skilled artisan may need to adjust the hydrogenation conditions, i.e. the amount of hydrogenating substance or the time of hydrogenation, to account for the additional asarones present in the starting material. However, any such adjustments would be obvious and are within the level of ordinary skill in the art. The Examiner believes that a prima facie case of obviousness exists because regardless of whether there is one asarone or a mixture of asarones in the starting material the skilled artisan is taught by Devgan et al. that one can obtain the dihydro-derivative of an asarone by conducting certain steps. The ability to

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hydrogenate beta and gamma asarone to obtain the dihydro derivative is taught in the prior art (see Devgan et al. and Patra et al.). Also the steps utilized by the Applicants to obtain the dihydro derivative, i.e., 1-propyl-2,4,5-trimethoxybenzene, are essentially the same as those taught by Devgan et al. other than the difference pointed out in the above rejection. Thus, when viewed as a whole the Examiner believes that the prior art teaches or at least fairly suggests the instant claimed invention.

Conclusion

6. Applicant's amendment (deletion of the structural formula) necessitated the new ground(s) of rejection (112, second paragraph) presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rosalynd Keys whose telephone number is 571-272-0639. The examiner can normally be reached on M-W & F 5:30-8:30 am & 1-5 pm;TH 5:30 am-5:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman Page can be reached on 571-272-0602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Rosalynd Keys Primary Examiner

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August 21, 2006